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- ☐ 1. Structural determination of Alcaligenes faecalis DA1 D - aminoacylase by Se - SAD [PDF-5K]
 May 2003
 ...determination of Alcaligenes faecalis DA1 **D-aminoacylase** by Se-SAD Shen-Jia Chen1, Chih-Yung...catalysis, we have obtained the first **D- aminoacylase** crystal from A. faecalis DA1...The 483-residue A. faecalis DA1 **D-aminoacylase** was expressed in E. coli M15 and...
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- ☐ 2. Production of d-Aminoacylase from Alcaligenes denitrificans subsp. xylosoxydans MI-4 Moriguchi, Mitsuaki / Ideta, Kohtaro, Applied and Environmental Microbiology, Dec 2003
 A bacterial strain that produces **d-aminoacylase** was isolated from soil and identified as Alcaligenes...l-Aminoacylase activity in this strain was only 1 to 2% of **d-aminoacylase** activity. **d-Aminoacylase** was inducibly produced. N-Acetyl-dl-leucine was...
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- ☐ 3. Production and Purification of d-Aminoacylase from Alcaligenes denitrificans and Taxonomic Study of the Strain
Tsai, Ying-Chieh / Tseng, Ching-Ping / Hsiao, Kuang-Ming / Chen, Ling-Yun, Applied and Environmental Microbiology, Dec 2003
 A **d-aminoacylase**-producing microorganism, strain DA181...micromoles of product formed per hour) of **d-aminoacylase** and 2,300 units of l-aminoacylase per...N-acetyl-dl-leucine as the carbon source. The **d-aminoacylase** was purified 345-fold. The specific...
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4. Purification and Characterization of d-Aminoacylase from Alcaligenes faecalis DA1

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- ☐ **Yang, Yunn-Bor / Lin, Chyuan-Sheng / Tseng, Ching-Ping / Wang, Yng-Jiin / Tsai, Ying-Chieh, *Applied and Environmental Microbiology*, Dec 2003**
A **d-aminoacylase** from *Alcaligenes faecalis* DA1 has been purified to homogeneity by a simple purification procedure with two columns, Fractogel DEAE-650...

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- ☐ **5. Crystallization and preliminary crystallographic analysis of a d-aminoacylase from *Alcaligenes faecalis* DA1**
Hsu, C.-S. / Chen, S.-J. / Tsai, Y.-C. / Lin, T.-W. / Liaw, S.-H. / Wang, A.H.-J., *Acta Crystallographica Section D: Biological Crystallography*, Sep 2002
...crystallographic analysis of a **D -aminoacylase** from *Alcaligenes faecalis* DA1...aid of zinc ions. The first **D -aminoacylase** crystal from *Alcaligenes faecalis*...amidohydrolase superfamily. Keywords: **D -aminoacylase**. 1. Introduction N -acyl- D...

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- ☐ **6. Crystal structure of D-aminoacylase from *Alcaligenes faecalis* DA1. A novel subset of amidohydrolases and insights into the...**
Shwu-Huey Liaw / Shen-Jia Chen / Tzu-Ping Ko / Cheng-Sheng Hsu / Chun-Jung Chen / Andrew H-J Wang / Ying-Chieh Tsai, *J Biol Chem*, Feb 2003
D-Aminoacylase is an attractive candidate for commercial...D-amino acids. We report here the first **D-aminoacylase** crystal structure from *A. faecalis* at...residue in the superfamily. Therefore, **D-aminoacylase** defines a novel subset and is a mononuclear...

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- ☐ **7. Structural-based mutational analysis of D-aminoacylase from *Alcaligenes faecalis* DA1.**
Cheng-Sheng Hsu / Wen-Lin Lai / Wei-Wei Chang / Shwu-Huey Liaw / Ying-Chieh Tsai, *Protein Sci*, Nov 2002
D-Aminoacylase is an attractive candidate for commercial...and structural-based mutation of the **D-aminoacylase** from *Alcaligenes faecalis* DA1. A 1,007-bp...genomic fragment, encoding a 484-residue **D-aminoacylase**. The enzyme amino-terminal segment shared...

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- ☐ **8. Crystallization and preliminary crystallographic analysis of a D-aminoacylase from *Alcaligenes faecalis* DA1.**
Cheng Sheng Hsu / Shen Jia Chen / Ying Chieh Tsai / Ting Wan Lin / Shwu Huey Liaw / Andrew H J Wang, *Acta Crystallogr D Biol Crystallogr*, Sep 2002
...-Aminoacylases catalyze the hydrolysis of N-acyl-D-amino acids into D-amino acids with the aid of zinc ions. The first **D-aminoacylase** crystal from *Alcaligenes faecalis* has been obtained in hanging drops at pH 5.6 by the vapour-diffusion method using...

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- ☐ **9. Heat-stable D-aminoacylase**
Tokuyama, Shinji / Matsuyama, Akinobu / Daicel Chemical Industries, Ltd.,

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT, Jul 2003
...present invention provides a novel **D-aminoacylase**, as well as method for producing...succeeded in purifying heat-stable **D-aminoacylase** from microorganisms belonging...that the purified heat-stable **D-aminoacylase** is useful in industrial production...

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☐ **10. DNA ENCODING NEW D-AMINOACYLASE AND METHOD FOR PRODUCING D-AMINO ACID USING THE SAME**

OSABE MASAMI / TAKAHASHI KATSUYUKI / YAMAKI TOSHIBUMI / ARII TERUO / OIKAWA TOSHIHIRO / MITSUI CHEMICALS INC, PATENT ABSTRACTS OF JAPAN, Nov 2002

PROBLEM TO BE SOLVED: To provide a new **D-aminoacylase** exhibiting sufficiently high activity at industrially...The objective DNA encoding the above-mentioned new **D-aminoacylase** is cloned from *Methylobacterium mesophilicum* MT 10894...

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☐ **11. HEAT-RESISTANT D-AMINOACYLASE**

TOKUYAMA SHINJI / MATSUYAMA AKIKAZU / DAICEL CHEM IND LTD, PATENT ABSTRACTS OF JAPAN, Feb 2002


...TO BE SOLVED: To provide a new **D-aminoacylase**, and to provide a method for producing...SOLUTION: This heat-resistant new **D-aminoacylase** can be purified from a microorganism...the genus *Streptomyces*. The new **D-aminoacylase** thus purified is useful for industrially...

Full text available at patent office. For more in-depth searching go to  LexisNexis[®]
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☐ **12. D-AMINOACYLASE AND GENE ENCODING THE SAME**

MIHASHI KAZUYA / YAMAMOTO HIROAKI / MATSUYAMA AKIKAZU / TOKUYAMA SHINJI / DAICEL CHEM IND LTD, PATENT ABSTRACTS OF JAPAN, Oct 2001

PROBLEM TO BE SOLVED: To provide **D-aminoacylase** acting on N- acetyl-D-tryptophan and a gene encoding the **D-aminoacylase**. SOLUTION: A gene encoding **D-aminoacylase** derived from *Hypomyces mycophilus* which is...

Full text available at patent office. For more in-depth searching go to  LexisNexis[®]
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☐ **13. D-aminoacylase from *Sebekia benihana***

Tokuyama, Shinji / DAICEL CHEMICAL INDUSTRIES, Ltd., EUROPEAN PATENT, Oct 1999

...present invention relates to a novel **D- aminoacylase** and a method of producing D-amino acids using said **D- aminoacylase**. Enzymes have excellent catalytic...hydrolyzing N-acetyl-DL-amino acids with **D-aminoacylase** to produce D-amino acids (Sugie...


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☐ **14. DNA ENCODING NOVEL D-AMINOACYLASE AND PROCESS FOR PRODUCING D-AMINO ACID BY USING THE SAME**

(OSABE,Masami) / (TAKAHASHI,Katsuyuki) / (YAMAKI,Toshifumi) / (ARII,Teruo) / (OIKAWA,Toshihiro) / (MITSUI CHEMICALS, INC.), PATENT COOPERATION TREATY APPLICATION, Aug 2002

A novel **D-aminoacylase** which is obtained by cloning a DNA encoding the novel **D-aminoacylase** from *Methylobacterium mesophilicum*...N-acyl-DL-amino acid a DNA

encoding this **D-aminoacylase** a process for producing a D-amino acid...

Full text available at patent office. For more in-depth searching go to  LexisNexis[®]
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- ☐ **15. TRANSFORMED MICROORGANISM AND PRODUCTION OF D- AMINOACYLASE**
TAKEUCHI KENICHI / KOIDE YOSHINAO / HIROSE YOSHIHIKO / MORIGUCHI
MITSUAKI / ISOBE KIMIYASU / AMANO ENZYME INC, PATENT ABSTRACTS OF
JAPAN, Jan 2001

...which is obtained by transducing a **D- aminoacylase**-producing gene into a zinc-resistant...which is obtained by transducing a **D-aminoacylase**-producing gene into a host microorganism...character of high productivity of **D-aminoacylase** in a medium containing zinc ion...

Full text available at patent office. For more in-depth searching go to  LexisNexis[®]
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- ☐ **16. Role of conserved histidine residues in D-aminoacylase from *Alcaligenes xylosoxydans* subsp. *xylosoxydans* A-6.**

M Wakayama / H Yada / S Kanda / S Hayashi / Y Yatsuda / K Sakai / M
Moriguchi, Biosci Biotechnol Biochem, Jan 2000

D-Aminoacylase from *Alcaligenes xylosoxydans* subsp. *xylosoxydans* A-6 (*Alcaligenes* A-6) was strongly inactivated by diethylpyrocarbonate (DEPC...


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- ☐ **17. NEW D-AMINO ACYLASE, ITS PRODUCTION AND PRODUCTION OF D-AMINO ACID USING THE D-AMINOACYLASE**

MIHASHI KAZUYA / YAMAMOTO HIROAKI / MATSUYAMA AKIKAZU / TOKUYAMA
SHINJI / DAICEL CHEM IND LTD, PATENT ABSTRACTS OF JAPAN, Feb 2000


PROBLEM TO BE SOLVED: To obtain a new **D-aminoacylase** which is composed of **D-aminoacylase** arising from molds belonging to the genus...ray fungi. SOLUTION: This enzyme is a new **D-aminoacylase** arising from molds belonging to the genus...

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- ☐ **18. D-AMINOACYLASE**

TOKUYAMA SHINJI / DAICEL CHEM IND LTD, PATENT ABSTRACTS OF JAPAN, Nov 1999


PROBLEM TO BE SOLVED: To obtain a novel **D-aminoacylase** that can simply and efficiently produce the corresponding...acid from an N- acetyl-DL-amino acid. SOLUTION: This **D-aminoacylase** originates from a microorganism in *Sebekia* and has...

Full text available at patent office. For more in-depth searching go to  LexisNexis[®]
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- ☐ **19. TRANSFORMED MICROORGANISM AND PROCESS FOR PRODUCING D-AMINOACYLASE**

(TAKEUCHI, Ken-ichi) / (KOIDE, Yoshinao) / (HIROSE, Yoshihiko) /
(MORIGUCHI, Mitsuaki) / (ISOBE, Kimiyasu) / (AMANO ENZYME INC.), PATENT
COOPERATION TREATY APPLICATION, Dec 2000

...transformed microorganism which selectively produces **D-aminoacylase** alone between **D-aminoacylase** and L-aminoacylase, obtained by transferring a **D-aminoacylase** production gene into a host microorganism tolerant...

Full text available at patent office. For more in-depth searching go to  LexisNexis[®]
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☐ 20. D-AMINOACYLASE

TOKUYAMA SHINJI / DAICEL CHEM IND LTD, *PATENT ABSTRACTS OF JAPAN*, Apr 1999

...TO BE SOLVED: To obtain a new **D-aminoacylase** capable of efficiently producing...N-acetyl-D,L-amino acid. SOLUTION: This **D-aminoacylase** has the following physicochemical...mM Cu²⁺, Hg²⁺ or Zn²⁺. The **D-aminoacylase** can be obtained by culturing microorganisms...

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